Welcome to the Wicked Thumb Army and congratulations on the purchase of your sidecar!

Over the course of this guide we will go over everything you need to know to get your sidecar unboxed, assembled and ready to roll.

If at any point during the assembly (including right now!), you are unsure of your ability to assemble the sidecar in a safe fashion, we strongly suggest taking it to your local bike shop, where they will be able to safely complete the process, while also checking for anything that may have loosened up during transit and tuning things to your riding ability and preference.

Before continuing any further, if there is any severe damage to the outside of the packaging, please take pictures before removing the sidecar and send them to support@wickedelectricbikes.com. Time is of the essence if there is shipping-related damage to your new sidecar.

All set? Let’s dive in!
IMPORTANT

IT IS NOT UNCOMMON FOR THE OUTER BOX TO ARRIVE DAMAGED. WE PACK THE SIDECAR VERY SECURELY, BUT IT IS INEVITABLE THERE IS OCCASIONAL DAMAGE IN SHIPPING.

IF THERE IS DAMAGE TO YOUR BOX:

TAKE PICTURES OF ALL 6 SIDES PRIOR TO OPENING. FAILURE TO DO SO MAY VOID ANY DAMAGE CLAIMS.

AFTER TAKING PICTURES OF THE OUTER CARTON, OPEN THE BOX AND

TAKE PHOTOS SHOWING THE INNER PACKING BEFORE REMOVING ANY COMPONENTS FROM THE BOX.

CAREFULLY INSPECT YOUR BIKE FOR DAMAGE. NOTE ANY DAMAGE.

IF YOU NOTICE ANY DAMAGE TO ITEMS SUCH AS THE MOUNTING FRAME, SIDECAR BODY, ETC. DO NOT USE YOUR SIDECAR UNTIL YOU HAVE BEEN CLEARED BY WICKED THUMB CUSTOMER SUPPORT.

OPERATING A DAMAGED SIDECAR AND THEREFORE CAUSING FURTHER DAMAGE WILL VOID YOUR WARRANTY ON THE ADDITIONAL DAMAGED PARTS.

IF EVERYTHING LOOKS GOOD ON INSPECTION, CONTINUE WITH THE REST OF THIS MANUAL AND ASSEMBLE AS INSTRUCTED.
TOOLS NEEDED FOR ASSEMBLY

- Scissors, flush cutters, or snippers
- 13mm wrench or socket
- 14mm wrench or socket
- 5mm Allen wrench
- Tire pump

Included in the box:

- Sidecar frame
- Sidecar body
- Seat
- Rubber carpet mat
- Seatbelt
- Sidecar fender
- Sidecar wheel
- Axle
- Utility bag
- Sidecar mounting plates
- U-bolts (two large, one small)
- nyloc nuts
- Spacers
- Shims
- Mounting bolts
- Quick-release pins
- Adjustment turnbuckle
- Zip ties
Sidecar Mounting Plate Installation

1. Use side cutters to remove zip-ties on rear cables to provide enough slack on cables to prevent them from becoming pinched or bound up in the mounting plate installation.

2. Attach the base plate on the bike frame by placing u-bolts through the base plate. The smaller u-bolt goes on the rear of the bike frame, and the larger two go on the front. Tip: the rear u-bolt goes at an angle between the rear cargo rack mounting bolt and the chain guard tab.
3. Place the mounting plate on the base plate by putting the u-bolts through the holes shown in the diagram.
Tip: make sure the cables are free, and are not binding or pinched between the mounting plates, u-bolts, or bike frame.

4. Put the large plastic spacer block on rear u-bolt, then add the metal shim, the small washers, and thread nyloc nuts onto the u-bolt just until finger tight.
Note: do not fully tighten the nyloc nuts down at this time.

5. On the top front u-bolt, place a shim, washers, and nyloc nuts.
6. On the bottom front u-bolt add the small round spacer, a shim, washers, and nyloc nuts.

7. Tighten all nyloc nuts down onto the u-bolts. Tip: be careful not to over tighten the nuts, as it could damage the frame of the bike.
8. Replace zip-ties on rear cables with new ones.
Sidecar frame and body assembly

1. Attach the sidecar frame to the mounting plates on the bike using the Allen bolts or quick-release pins.
   Tip: Do not install the bottom bolt/pin that connects the adjustment turnbuckle to the frame yet to more easily move the frame around when installing the wheel.

2. Assemble the wheel by removing the nut on the side of the axle that will be facing inward. Remove the conical spring on this side, slide the axle through the wheel, replace the spring, and loosely thread on the nut.
   Note: the side of the wheel with the 6-bolt mount for a disc brake goes on the inside/the side with the nut.
3. Install the wheel on the sidecar frame by placing the receivers on the sidecar frame on the axle, tightening the axle bolt, and locking the tension clamp. Reminder: the side of the wheel with the 6-bolt mount for a disc brake goes on the inside, and the tension bolt should be on the outside. Tip: if the bottom Allen bolt/quick-release pin was left uninstalled to make wheel installation easier, install it now.

![Image of wheel installation](image1.jpg)

4. Mount the fender using the Allen bolt and nyloc nut. Note: The tangs on the fender go toward the front.

![Image of fender mounting](image2.jpg)

5. Place the car body on frame. Tip: the sidecar body is heavy. Get assistance lifting the sidecar if needed.
6. Determine mounting position of seatbelt.
   Note: make sure the seatbelt mounts face outwards toward the sides of the sidecar body when
   tightening the bolts later.

7. Place mounting bolts through holes in the sidecar body, lining them up with the holes in the
   sidecar frame. Place large washers on topside of the mounting hole. Place rubber grommets
   on the bolts between the sidecar body and frame. Finally, place small washers and nuts on the
   bolts on the underside of the frame.
8. Tighten nuts and bolts using a 14mm wrench for the top of the bolt, and a 13mm wrench for the nut on the bottom.  
   Tip: this requires some coordination when doing it yourself. Get assistance if necessary.  
   Tip: do not over tighten the bolts, as it may damage the body of the sidecar.  
9. Use the adjustment turnbuckle to adjust the pitch of the bike so that it is leaned in slightly toward the sidecar.  

10. Place the rubber carpet mat in the sidecar.  
11. Place the seat in the sidecar.  
12. Inflated the sidecar tire to 20psi.  
13. Inspect all fasteners to ensure they are secure prior to riding. After the first few rides, inspect all fasteners again to ensure nothing has come loose.  

**Warning:** the sidecar has a maximum load of 120lbs and a maximum operating speed of 10mph. Exceeding these limits could damage the sidecar and/or cause a loss of control which could result in injury to yourself or others.  

Note: when operating the sidecar without a passenger, it is advisable to place a load of at least 30-50lbs in the sidecar in order to improve handling.